

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

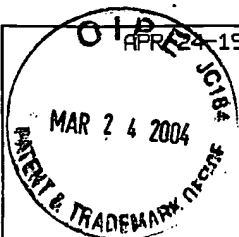
Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**



APR 24 1902 12:10 FROM LLNL

TO

82152542 P.01

**COMBINED DECLARATION AND POWER OF ATTORNEY**

- ☐ Declaration submitted with Initial Filing
- ☒ Declaration submitted after Initial Filing (surcharge (37 CFR 1.16(e)) required)

Attorney Docket: IL-11028  
Applicant: Hsneh-Yuan Pao et al.  
Serial No.: 10/644.561  
Filing Date: August 19, 2003

As a below named inventor(s), I (we) hereby declare that:

My (Our) residence, post office address and citizenship(s) are as stated below next to my (our) name(s).

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**DIGITAL INTERMEDIATE FREQUENCY QAM MODULATOR USING PARALLEL PROCESSING**

the specification of which (check one)

is attached hereto ☒ was filed on August 19, 2003 as United States Application Number or PCT International Application Number 10/644.561

and was amended on \_\_\_\_\_ (if applicable).

I (We) hereby state that I (we) have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I (We) acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I (We) hereby claim foreign priority benefits under 35, U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

(Application Number) (Country) (Foreign Filing Date)

(Application Number) (Country) (Foreign Filing Date)

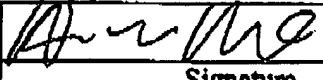
I (We) hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:

60/404,596 August 19, 2002  
Application Serial No. Filing Date

I (We) hereby claim the benefit under 35 U.S.C. 120 of any United States applications(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

Application Serial No.	Filing Date	Status
<b>POWER OF ATTORNEY:</b> As the named inventor(s), I (we) hereby appoint the following registered practitioner(s) to prosecute this application, and to transact all business connected therewith, in any patent office, U.S. or foreign.		
Names	Registration No.	
John P. Wooldridge	38,725	
Alan H. Thompson	29,981	
Ann M. Lee	47,741	
Eddie E. Scott	25,220	
Michael C. Staggs	50,938	
James S. Tak	46,367	
<u>Direct Correspondence To:</u> Alan H. Thompson Deputy Laboratory Counsel For Intellectual Property Lawrence Livermore National Laboratory P.O. Box 808, L-703 Livermore, California 94551		<u>Direct Telephone Calls To:</u> (Name and Telephone Numbers)  John P. Wooldridge (808) 270-1011

I (We) hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

HSUEH-YUAN PAO		
Full Name of Inventor	Signature	
LIVERMORE, CA	23 February 2004	
Residence (City, State or Foreign Country)	Date	
6522 VILLAGE DR., LIVERMORE, CA 94550	USA	
Postal Address (Street, City, State, Zip Code)	Citizenship	
XX		
BINH-NIEN TRAN		
Full Name of Inventor	Signature	
SAN RAMON, CA		
Residence (City, State or Foreign Country)	Date	
460 PINE RIDGE DR., SAN RAMON, CA 94583	USA	
Postal Address (Street, City, State, Zip Code)	Citizenship	
XX		

**COMBINED DECLARATION AND POWER OF ATTORNEY**

- ☐ Declaration submitted with Initial Filing
- ☒ Declaration submitted after Initial Filing (surcharge (37 CFR 1.16(e)) required)

Attorney Docket: IL-11028  
Applicant: Hsneh-Yuan Pao et al.  
Serial No.: 10/644.561  
Filing Date: August 19, 2003

As a below named inventor(s), I (we) hereby declare that:

My (Our) residence, post office address and citizenship(s) are as stated below next to my (our) name(s).

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**DIGITAL INTERMEDIATE FREQUENCY QAM MODULATOR USING PARALLEL PROCESSING**

the specification of which (check one)

is attached hereto ☒ was filed on August 19, 2003 as United States Application Number or PCT International Application Number 10/644.561

and was amended on \_\_\_\_\_ (if applicable).

I (We) hereby state that I (we) have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I (We) acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I (We) hereby claim foreign priority benefits under 35, U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

(Application Number) (Country) (Foreign Filing Date)

(Application Number) (Country) (Foreign Filing Date)

I (We) hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:

60/404,596 August 19, 2002  
Application Serial No. Filing Date

I (We) hereby claim the benefit under 35 U.S.C. 120 of any United States applications(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

Application Serial No.	Filing Date	Status
<b>POWER OF ATTORNEY:</b> As the named inventor(s), I (we) hereby appoint the following registered practitioner(s) to prosecute this application, and to transact all business connected therewith, in any patent office, U.S. or foreign.		
Names	Registration No.	
John P. Wooldridge	38,725	
Alan H. Thompson	29,981	
Ann M. Lee	47,741	
Eddie E. Scott	25,220	
Michael C. Staggs	50,938	
James S. Tak	46,367	
<u>Direct Correspondence To:</u> Alan H. Thompson Deputy Laboratory Counsel For Intellectual Property Lawrence Livermore National Laboratory P.O. Box 808, L-703 Livermore, California 94551		<u>Direct Telephone Calls To:</u> (Name and Telephone Numbers)  John P. Wooldridge (808) 270-1011

I (We) hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

<b>HSUEH-YUAN PAO</b>	
Full Name of Inventor	Signature
<b>LIVERMORE, CA</b>	
Residence (City, State or Foreign Country)	Date
6522 VILLAGE DR., LIVERMORE, CA 94550	USA
Postal Address (Street, City, State, Zip Code)	Citizenship
XX	
<b>BINH-NIEN TRAN</b>	
Full Name of Inventor	Signature
<b>SAN RAMON, CA</b>	
Residence (City, State or Foreign Country)	Date
460 PINE RIDGE DR., SAN RAMON, CA 94583	USA
Postal Address (Street, City, State, Zip Code)	Citizenship
XX	